



Low Noise Amplifier

Model: LNA26.5G40G-3030

26.5-40GHz 30dB, Gain 3.0dB, NF

Ultrabroad frequency range, high small signal gain, low noise figure and good gain flatness

Features:

- Frequency range: 26.5-40GHz
- Small Signal Gain: 30dB min.
- Output P1dB: 0dBm min.
- Noise Figure: 3.0dB max.
- Operating voltage/current: +12 VDC/60mA.
- Simple 220V system available SAC option.
- 50 Ohm Matched Input / Output.

Applications:

- Laboratory Applications
- R&D Labs
- Radar Systems
- ISM
- Test Instrumentation

Product Overview:

The LNA26.5G40G-3030 is a coaxial low noise operating in the 26.5 to 40 GHz frequency range. The amplifier offers a maximum noise figure of 3.0 dB, 0 dBm minimum of output P1dB and a minimum small signal gain of 30 dB with the excellent gain flatness of ± 1.5 dB nominal. The DC power requirement for the amplifier is +12 VDC/60 mA. The input and output port configuration offers coax adapter structure with 2.92mm female.



Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	26.5		40	GHz
Small Signal Gain	30			dB
Small Signal Gain Flatness		±1.5	±2	dB
Noise Figure		2.5	3	dB
Output P1dB	0			dBm
Output IP3		10		dBm
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage		+12		V DC
DC Supply Current		60		mA
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Notes
Operating Temperature	-40°C to +70°C	
Non-operating Temperature	-55°C to +85°C	
Relative humidity	95	%
RF Input/Output Connector	2.92mm Female/2.92mm Female	
DC Bias	Solder Pin	
Altitude	10,000	feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis	
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions	
Dimensions W x H x D	20 x 30 x 8	mm
Weight	50	g

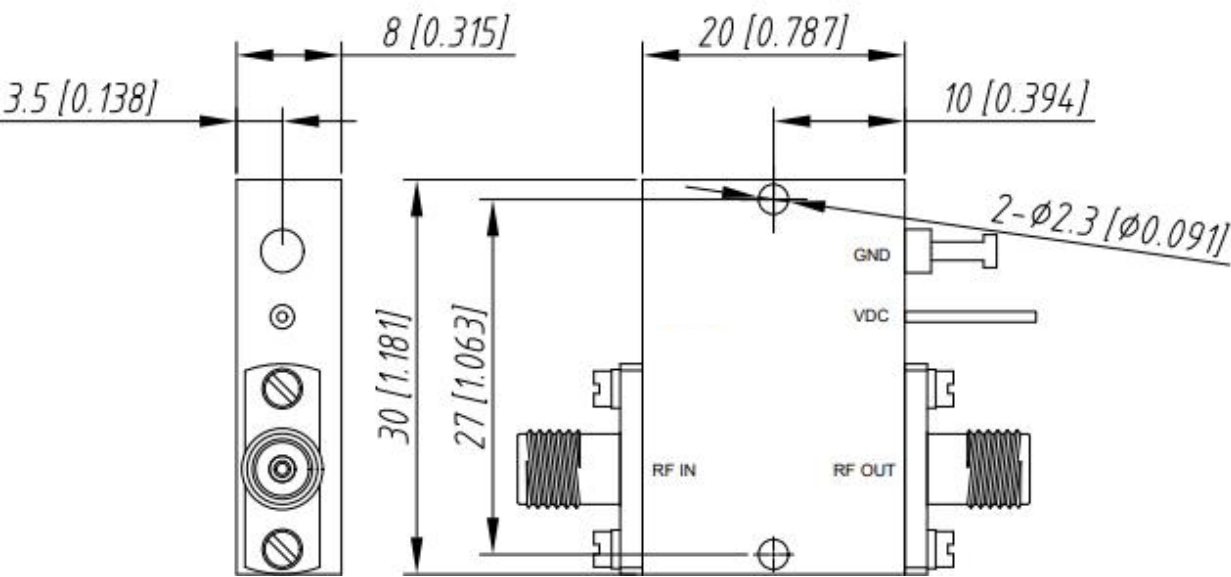
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+15 V
RF Input Power	-25 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm; Tolerance:±0.1mm



Ordering Information:

Base Number	Description	Optional
LNA26.5G40G-3030	Low Noise Amplifier, 26.5-40GHz, Gain:30dB,Noise Figure:3.0dB,P1dB:0dBm,+12V DC	Without Heatsink
LNA26.5G40G-3030-HS	Low Noise Amplifier, 26.5-40GHz, Gain:30dB,Noise Figure:3.0dB,P1dB:0dBm,+12V DC	With Heatsink